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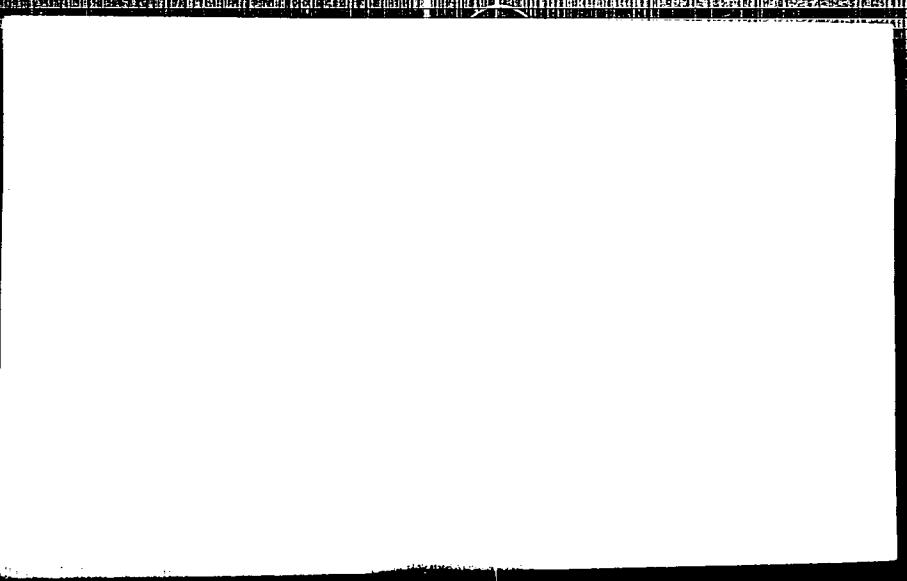
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Experiments to determine the mechanism for the photoreaction of CCl_4 with CH_3OH on exposure to UV light showed that C_2Cl_6 was produced only by dimerization of CCl_3 radicals formed by photolysis of CCl_4 . CCl_3 radicals did not remove H from CH_3OH to form CHCl_3 . An exchange of Cl^4 atoms in the photoreaction between labeled $\text{C}^{14}\text{HCl}_3$ and CCl_4 or CCl_3 radicals did not occur. The incapability of CCl_3 radicals to remove H from CH_3OH or from $\text{C}^{14}\text{HCl}_3$ and the absence of Cl^4 exchange may be due to the lower energy of stabilization of these compounds.

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